LAC Meeting #6

Thank you for joining us!
The webinar will begin shortly.

Before we begin, please note:

- The public audience will automatically be placed on mute
- Those providing comments on agenda items during the public comment period will be unmuted at the proper time
- The webinar is being recorded. A video link will be made available at www.honolulu.gov/opala/newlandfill



CALL TO ORDER
ROLL CALL
PUBLIC COMMENT PERIOD

APPROVAL OF MEETING 5 MINUTES

PRESENTATION, DISCUSSION AND ACTION

Landfill Location and Drinking Water Protection

ANNOUNCEMENTS AND ADJOURNMENT

PRESENTATION AND DISCUSSION

Potential Landfill Sites

Subjective Evaluation and Scoring Methodology

LANDFILL ADVISORY COMMITTEE



Steven ChangEnvironmental Regulation



Suzanne Jones
Solid Waste



Ken KawaharaProfessional Engineer
Civil Engineering



Emmett KinneyGeneral Contracting



Brennon Morioka

Professional Engineer

Civil Engineering



James NakataniAgribusiness Development



Cynthia Rezentes

Classical Electrical Engineering

Community Advocate



Trisha Kehaulani Watson

Environmental Justice

Cultural Resources

• Introduc	ction and Foundation	
• October	25, 2021 – 2 hours	
	es and Limited Meeting Re-vote	
Novemb	per 3, 2021 – 3.5 hours	
• Site Visit	ts – PVT Landfill, Waimānalo Gulch Sanitary Landfill, and H-POWER	
• Decemb	per 14, 2021 - 2 hours	
Starting	Evaluation Criteria and Scoring Methodology	
• Homewo	ork: Suggest sites and/or additional evaluation criteria	
• Februar	y 7, 2022 - 2 hours	
Final Evaluation Criteria and Potential Landfill Sites		
Homework	ork: Assign Weights to Evaluation Criteria	
March 7	', 2022 - 2 hours	
Objective and Subjective Evaluation of Potential Landfill Sites		
Homework	ork: Score potential landfill sites using subjective criteria	
• April 20	22 - 2 hours	
	on Results, Site Rankings, Community Benefits, and Report Contents	
• Homewo	ork: Brainstorm community site benefits	
• June 202	22 - 2 hours	
Draft Report Revisions and Potential Community Benefits		
 Conclusi 	ion	

ORAL PUBLIC COMMENTS

- 2 minutes per person
- Registered commenters first, then any unregistered commenters (raise hand on Webex, *3 on phones)
- When called upon, you will be unmuted
- Please state your name and agenda item on which you are speaking



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Approval of Prior Meeting Minutes

LAC Meeting #5 – February 7, 2022



CALL TO ORDER
ROLL CALL
PUBLIC COMMENT PERIOD

APPROVAL OF MEETING 5 MINUTES

PRESENTATION, DISCUSSION AND ACTION

<u>Landfill Location and</u> <u>Drinking Water Protection</u> ANNOUNCEMENTS AND ADJOURNMENT

PRESENTATION AND DISCUSSION

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DOH Safe Drinking Water Branch Drinking Water Well 10-Year Composite Capture Zones





BWS Documents Provided

- BWS Resolution No. 427
- BWS Resolution No. 502
- Appendices to 2012 MACLSS Report
- BWS Letter to ENV



Board of Water Supply Introduction

Landfill Location and Drinking Water Protection Discussion

OPEN TO THE COMMITTEE



CALL TO ORDER
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PUBLIC COMMENT PERIOD

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Figure 1 Oahu Landfill Siting Study Overview of Potential Landfill Sites

Legend

Potential Landfill Site

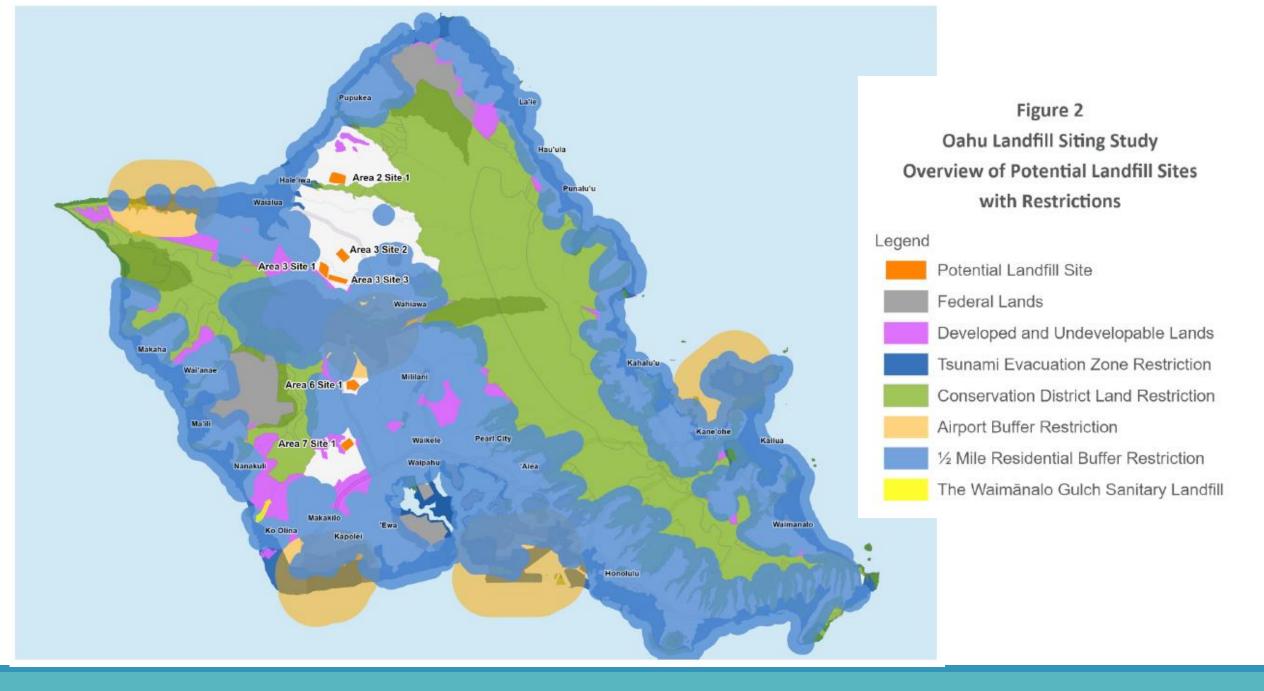


Figure 3
Oahu Landfill Siting Study
Location of Area 2, Site 1

Legend

Potential Landfill Site









Figure 4
Oahu Landfill Siting Study
Locations of Area 3,
Site 1 / Area 3, Site 2 / Area 3, Site 3

Legend
Potential Landfill Site







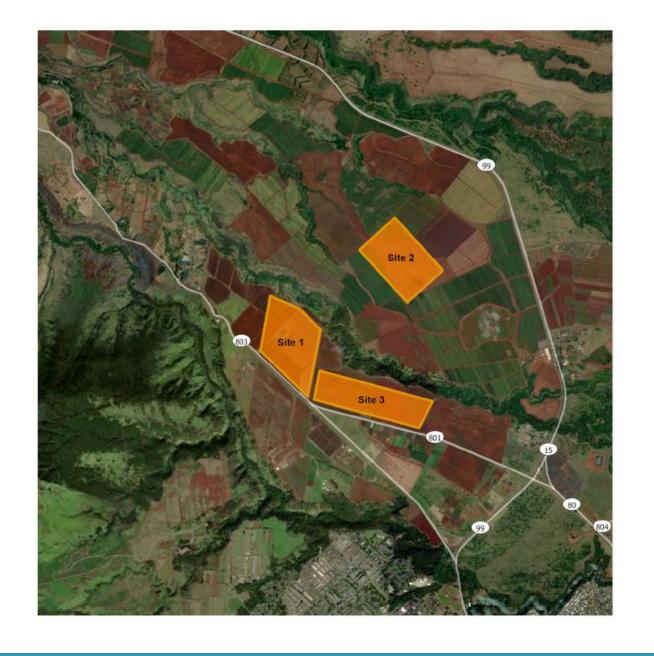


Figure 5
Oahu Landfill Siting Study
Location of Area 6, Site 1

Legend
Potential Landfill Site







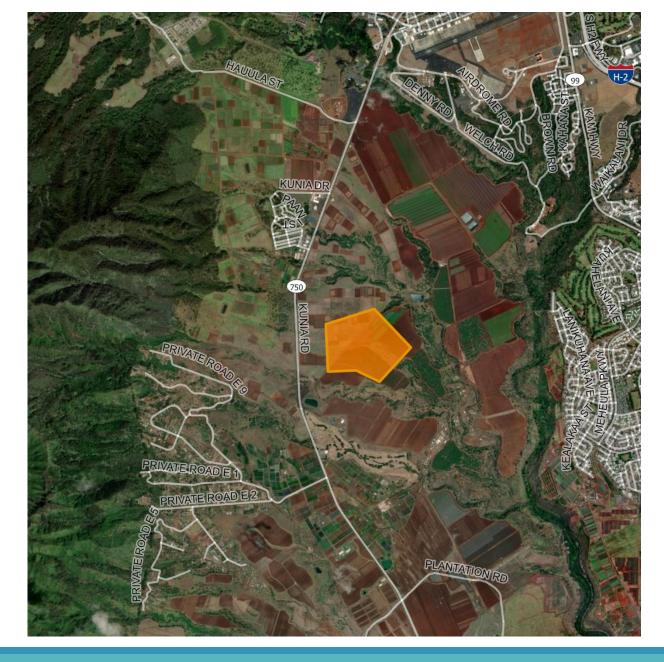


Figure 6
Oahu Landfill Siting Study
Location of Area 7, Site 1

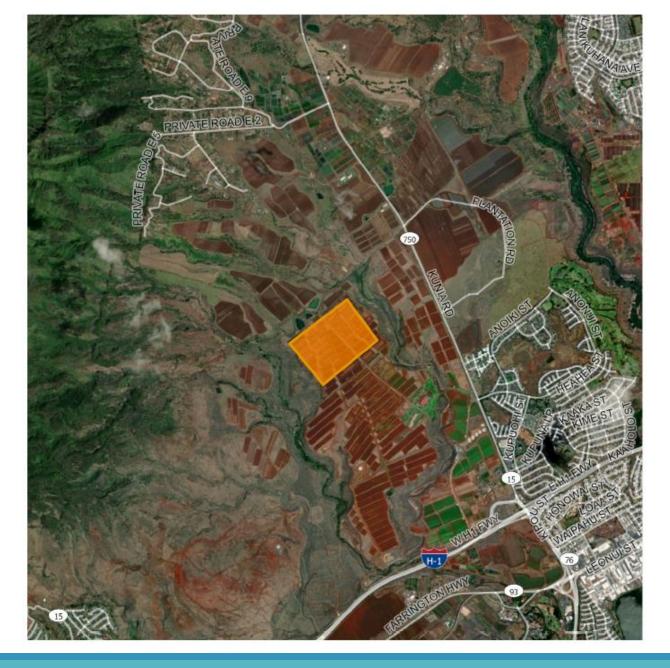
Legend





0 0.5 mi





Potential Landfill Sites Discussion

OPEN TO THE COMMITTEE



CALL TO ORDER
ROLL CALL
PUBLIC COMMENT PERIOD

APPROVAL OF MEETING 5 MINUTES

PRESENTATION, DISCUSSION AND ACTION

Landfill Location and Drinking Water Protection

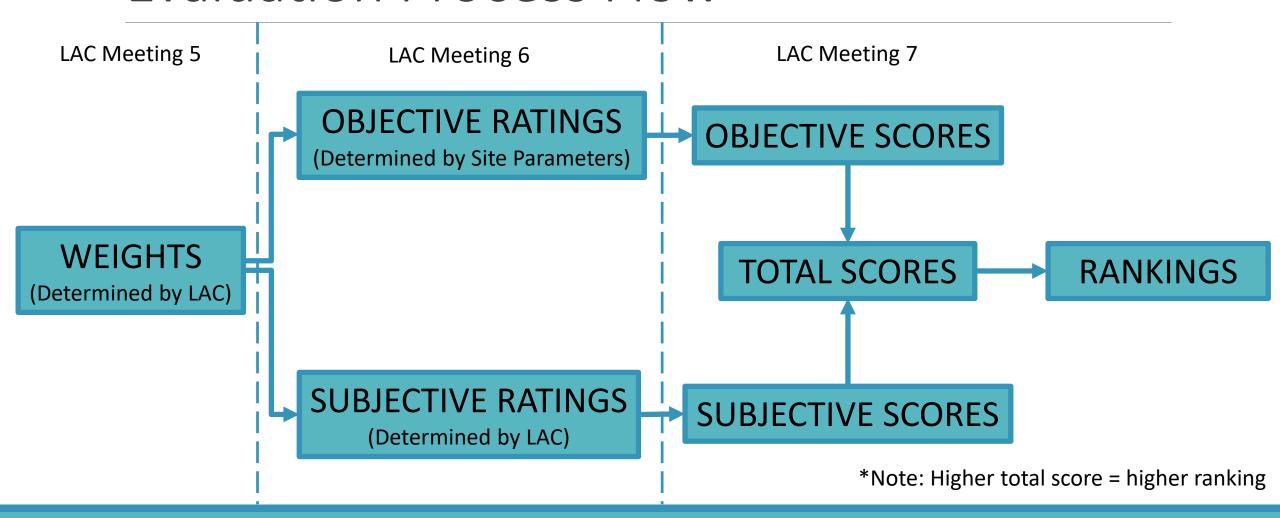
ANNOUNCEMENTS AND ADJOURNMENT

PRESENTATION AND DISCUSSION

Potential Landfill Sites

Subjective Evaluation and Scoring Methodology

Evaluation Process Flow



Criteria Weights

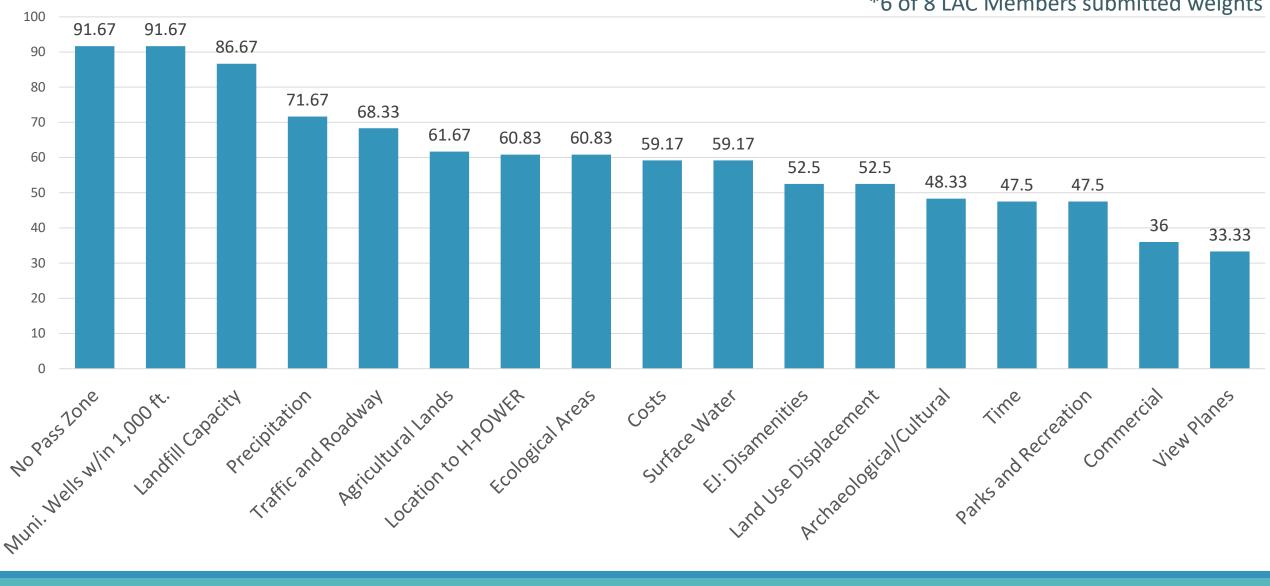
Criteria	Ave. Weight
No Pass Zone	91.67
Muni. Wells w/in 1,000 ft.	91.67
Landfill Capacity	86.67
Precipitation	71.67
Traffic and Roadway	68.33
Agricultural Lands	61.67
Location to H-POWER	60.83
Ecological Areas	60.83

Criteria	Ave. Weight
Costs	59.17
Surface Water	59.17
EJ: Disamenities	52.50
Land Use Displacement	52.50
Archaeological/Cultural	48.33
Time	47.50
Parks and Recreation	47.50
Commercial	36.00
View Planes	33.33

^{*6} of 8 LAC Members submitted weights

Average Criteria Weights

*6 of 8 LAC Members submitted weights



Rating

- Numerical value assigned to each site based on the favorability of the site
- Minimum numerical value = 0
- Maximum numerical value = 6
- Whole number values only
- Sites can have equal ratings
- Average ratings per site used in score calculation

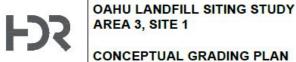
Types of References

Site Location Figures

Examples of Supporting Documents

Conceptual
Grading
Plan and
Parcel
Information





2/20/2022 FIGURE

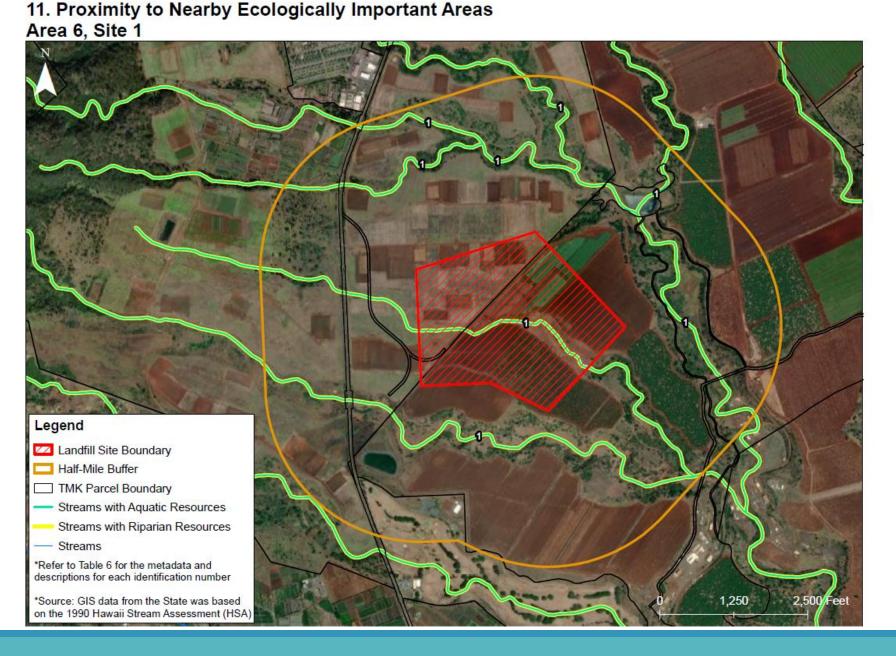
Oahu Landfill Siting Study 10. Land Use Displacement Area 3, Site 2

10. Land UseDisplacement



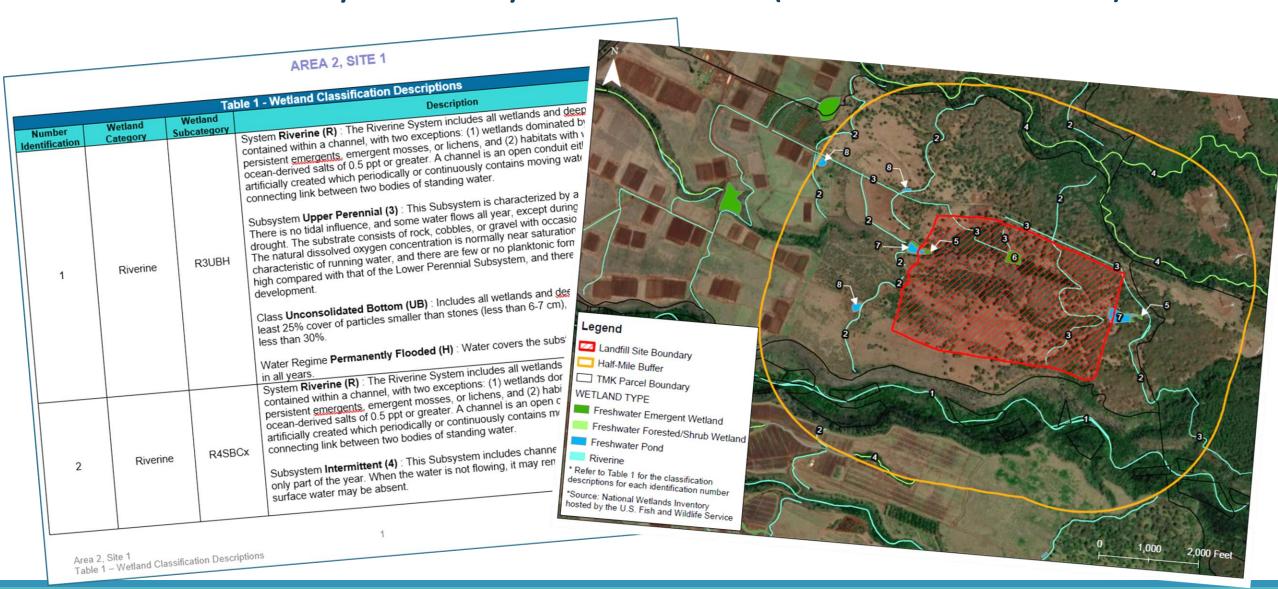
11. Proximity to Ecologically Important Areas

Ecologically important areas are considered habitat areas or other areas where rare or native species may occur that contribute to an ecosystem's productivity, biodiversity, and resilience. None of the landfill sites are located in areas designated as Critical Habitat under the Endangered Species Act.



Oahu Landfill Siting Study

12. Proximity to Nearby Surface Water (Wetlands & Streams)



13. Proximity to Nearby Archaeological & Cultural Resources

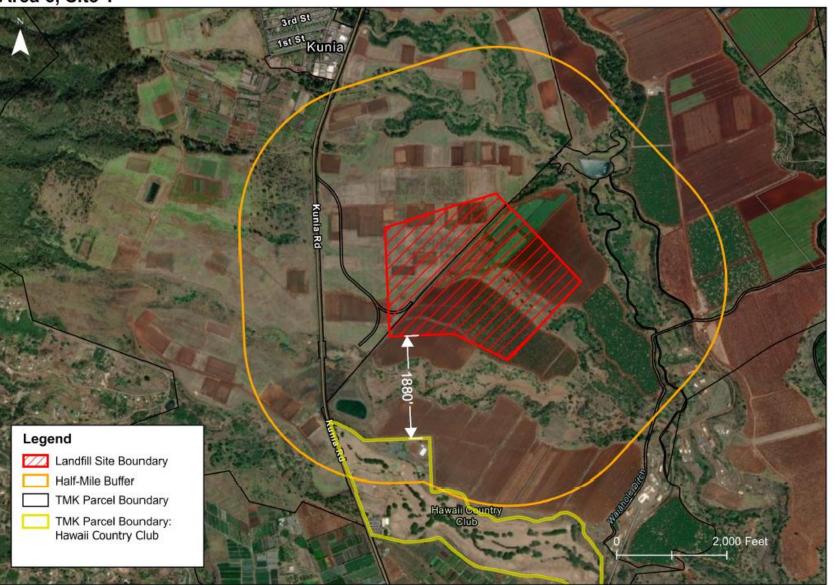
Information for archaeological & cultural resources was gathered from the Office of Hawaiian Affairs' Kipuka Database, the State Historic Preservation Division's Hawaii Cultural Resource Information System database, and other publicly available reports. Such reports were identified through project information available on HICRIS and a search of environmental assessment documents and land use permit applications available to the public.

13. Proximity to Nearby Archaeological and Cultural Resources (Historic Sites) Area 2, Site 1 Legend Landfill Site Boundary Half-Mile Buffer TMK Parcel Boundary Place Name Historic Site Refer to Table 1 for site descriptions for each identification number Source: Data collected from the OHA Kipuka Database, SHPD's HICRIS database, 2,000 Feet and other publicly available reports.

Oahu Landfill Siting Study

Oahu Landfill Siting Study
14. Proximity to Nearby Parks and Recreation Facilities
Area 6, Site 1

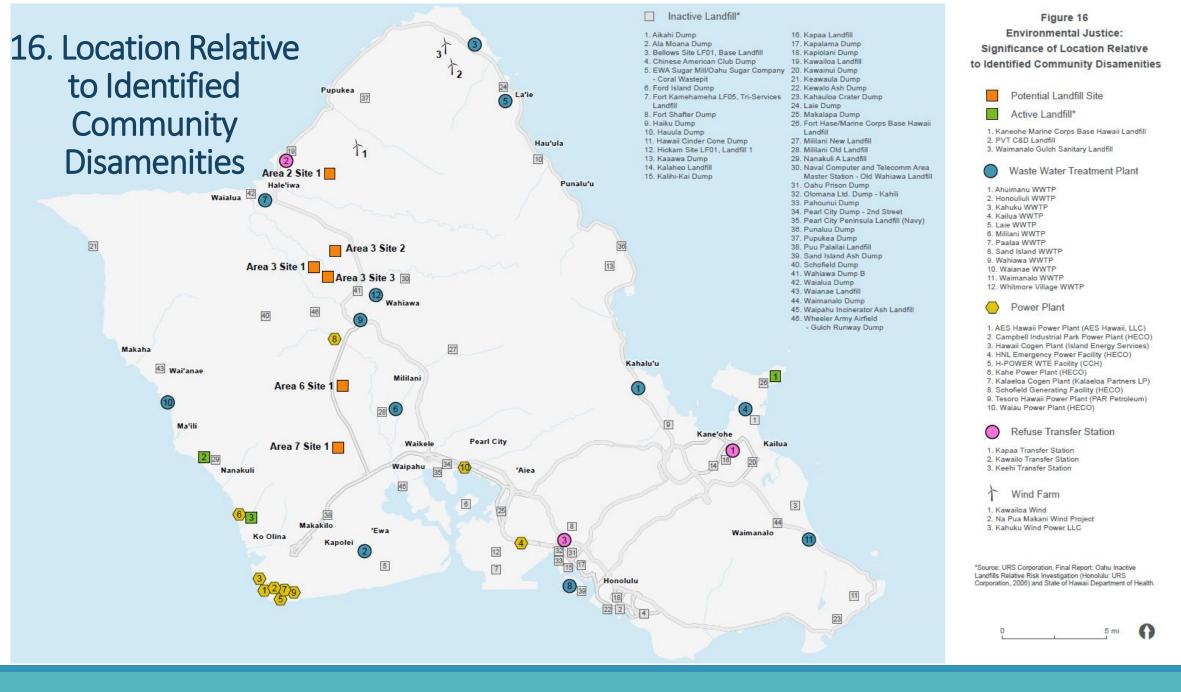
14. Proximity to Nearby Parks and Recreation Facilities



Oahu Landfill Siting Study 15. Proximity to Nearby Public Commercial Facilities Area 3, Site 3

15. Proximity to Nearby Public Commercial Facilities

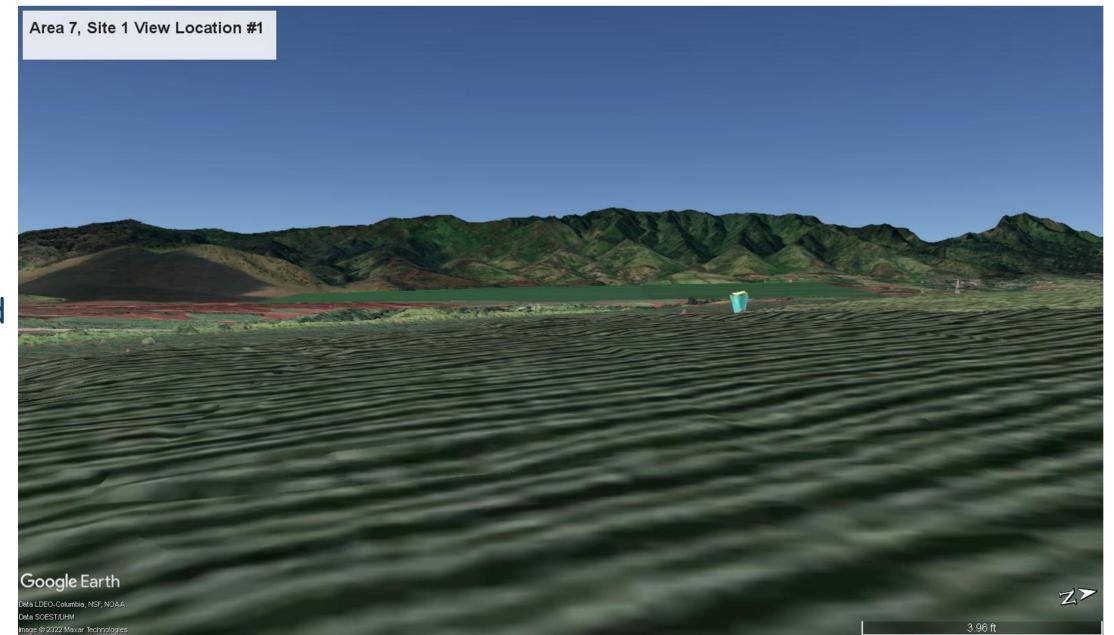




Area 7, Site 1 Overhead View Area 7 Site 1 - View Location #3 Rrea 7 Site 1 View Location 4 Area 7 Site 1 - View Location #1 Parea 7 Site 1 - View Location #2 Google Earth

17. Effect
on
Established
Public
View
Planes

mage @ 2022 Maxar Technologies



17. Effect
on
Established
Public
View
Planes

Rating Assistance Form

2	Significance of Nearby Ecologically Important Areas							Ecologically important areas are located within $\frac{1}{2}$ -mile of all landfill sites and include streams, and streams with aquatic and riparian habitats as listed below. Figures showing the locations and		
Site	0	1	2	3	4	5	6	types of ecological areas and corresponding classification descriptions are provided in Attachment 11.		
2.1								Streams, and Streams with Aquatic and Riparian Resources		
3.1								Streams with Aquatic and Riparian Resources		
3.2								Streams, and Streams with Aquatic and Riparian Resources		
3.3								Streams with Aquatic and Riparian Resources		
6.1								Streams with Aquatic and Riparian Resources		
7.1								Streams		

Rating Question in MS Form

2. Significance of Proximity to Nearby Ecologically Important Areas (direct and indirect effects of the location of the landfill relative to ecologically important areas within one-half-mile, with 0 being no potential effect and 6 being potential significant negative effect)

	0	1	2	3	4	5	6
2.1	\bigcirc						
3.1							
3.2	\bigcirc	\circ	\circ	\circ	\bigcirc	\bigcirc	\bigcirc
3.3							
6.1	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc		
7.1							

Rating Question Output

LAC Member	Site 2.1	Site 3.1	Site 3.2	Site 3.3	Site 6.1	Site 7.1
1	0	0	0	0	0	4
2	1	0	0	0	0	0
3	1	2	6	6	4	2
4	3	2	2	2	2	1
5	0	2	3	4	5	6
6	3	1	1	1	1	2
7	4	3	3	3	3	4
8	2	5	5	5	5	6
Average Rating	1.75	1.88	2.50	2.63	2.50	3.13

^{*}Disclaimer: All values displayed were input were for testing purposes only, do not reflect the views of any of the parties involved, and are not intended to influence scoring.

Subjective Ratings (Reverse Calculation) Example

Proximity to Nearby Ecologically Important Areas (½-mile from landfill site)

0 = no potential effects (a good thing)

6 = potential significant effects (a bad thing)

The rating must then be reversed to be applicable with the rest of the scoring.

Example: Site 2.1 Average Rating = 1.75 (minimal impact, mostly good)

Average Reversed Rating = 6 - 1.75 = 4.25

4.25 is entered into the scoring formula

Applied Ratings Conversion

LAC Member	Site 2.1	Site 3.1	Site 3.2	Site 3.3	Site 6.1	Site 7.1			
1	0	0	0	0	0	4			
2	1	0	0	0	0	0			
3	1	2	6	6	4	2			
4	3	2	2	2	2	1			
5	0	2	3	4	5	6			
6	3	1	1	1	1	2			
7	4	3	3	3	3	4			
8	2	5	5	5	5	6			
Average Rating	1.75	1.88	2.50	2.63	2.50	3.13			
Reverse $-6 - A$									
Ave. Reversed Rating	4.25	4.13	3.50	3.38	3.50	2.88			

^{*}Disclaimer: Numbers are rounded to two decimal places

Score

Proximity to Nearby Ecologically Important Areas (½-mile from landfill site)

Average Weight x Average Reversed Rating (per Site) = Score

	Average Weight		60.83			
			X			
	Site 2.1	Site 3.1	Site 3.2	Site 3.3	Site 6.1	Site 7.1
Ave. Reversed Rating	4.25	4.13	3.50	3.38	3.50	2.88
			=			
Score	258.53	250.92	212.91	205.30	212.91	174.89

Evaluation Schedule

- Meeting 6 (Today)
 - Homework: Subjective Criteria Rating for six potential sites by Monday, March 14, 2022
- Meeting 7 (April 4, 2022, Tentative)
 - Scores and Rankings Revealed

Subjective Evaluation and Scoring Methodology Discussion

OPEN TO THE COMMITTEE



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Announcements

- Homework: Subjective Ratings
- LAC Meeting #7 April 4, 2022 (Tentative)



Adjournment

THANK YOU FOR YOUR PARTICIPATION!